CLAIMS

1. A process for producing an N,N',N"-trisubstituted isocyanuric acid, comprising the step of heating an N-substituted carbamic acid derivative represented by following Formula (1):

$$\begin{array}{ccc}
H & O \\
I & I \\
RO - N - C - Z
\end{array} \tag{1}$$

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wherein R is a hydroxyl-protecting group; and Z is a group represented by following Formula (2) or (3):

$$-0-R' \qquad -N \qquad N \qquad \qquad N \qquad$$

wherein R' is a hydrocarbon group or a heterocyclic group having a carbon atom at the bonding site with the adjacent oxygen atom, wherein the heating step is carried out at a temperature in a range of 95°C to 145°C where Z is the group represented by Formula (3), to thereby form an N,N',N"-trisubstituted isocyanuric acid represented by following Formula (4):

$$\begin{array}{ccc}
RO & & & & \\
O & & & & \\
N & & & & \\
RO & & & & \\
\end{array}$$

$$\begin{array}{cccc}
N & & & & \\
N & & & & \\
\end{array}$$

$$\begin{array}{ccccc}
N & & & & \\
\end{array}$$

$$\begin{array}{ccccc}
(4) & & & \\
\end{array}$$

wherein R has the same meaning as defined above.

2. A process for producing an N, N', N"-trisubstituted

isocyanuric acid, comprising the step of heating an O-substituted hydroxylamine represented by following Formula (C):

$$RO-NH_2$$
 (C)

wherein R is a hydroxyl-protecting group, or a salt thereof with (I) a compound represented by following Formula (A) or a compound represented by following Formula (B):

$$X - C - Y$$
 $Y - C - Y$

(A) (B)

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wherein X is a halogen atom; and Y is NH_2 or OR' wherein R' is a hydrocarbon group or a heterocyclic group having a carbon atom at the bonding site with the adjacent oxygen atom, or with (II) dimethyl carbonate, urea or phosgene, and a hydroxy compound represented by following Formula (D):

wherein R' has the same meaning as defined above to thereby form an N,N',N"-trisubstituted isocyanuric acid represented by following Formula (4):

$$\begin{array}{ccc}
RO & O \\
O = & N - OR \\
RO & O
\end{array}$$
(4)

wherein R has the same meaning as defined above.

3. A process for producing an N, N', N"-trisubstituted

isocyanuric acid, comprising the steps of reacting a carbonyldiimidazole represented by following Formula (5):

$$N = N - C - N \qquad (5)$$

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with an O-substituted hydroxylamine represented by following Formula (6):

$$R-ONH_2$$
 (6)

wherein R is a hydroxyl-protecting group, or a salt thereof, and further heating at a temperature in a range of 95°C to 145°C, to thereby form an N,N',N"-trisubstituted isocyanuric acid represented by following Formula (4):

$$\begin{array}{ccc}
RO & & & & & \\
O & & & & & \\
N & & & & \\
N & & & & \\
N & & & & \\
N & & & & \\
N & & & & \\
N & & & & & \\
N & & & \\
N & &$$

wherein R has the same meaning as defined above.

- 4. The process for producing an N,N',N"-trisubstituted isocyanuric acid according to any one of claims 1 to 3, wherein the reaction is carried out in the presence of a base.
- 5. The process for producing an N,N',N"-trisubstituted isocyanuric acid according to any one of claims 1 to 4, wherein R is an arylmethyl group which may be substituted.
- 6. The process for producing an N,N',N"-trisubstituted
 20 isocyanuric acid according to claim 1 or 2, wherein R' is an aromatic cyclic group which may be substituted.

7. A process for producing an N,N',N"-trisubstituted isocyanuric acid, comprising the step of purifying an N,N',N"-trisubstituted isocyanuric acid represented by following Formula (4):

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wherein R is a hydroxyl-protecting group by at least one purification means selected from crystallization, repulping and washing, with the use of an alcohol-containing solvent.